

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1 1. (currently amended) A method for registering at least one wireless access point
2 ~~with a gateway~~ in a wireless local area network (WLAN), comprising:
3 broadcasting, from a WLAN gateway, a discovery message to said at least one
4 wireless access point in said ~~network~~ WLAN;
5 receiving at said WLAN gateway, from at least one wireless access point
6 receiving said discovery message, an access point registration request comprising access
7 point location, IP address, MAC address, radio type, and power level information of said
8 wireless access point; and
9 storing said access point registration request information at said WLAN gateway.

1 2. (currently amended) The method of claim 1, wherein each wireless access point
2 selects a random delay prior to sending said access point registration request to said
3 broadcasting WLAN gateway.

1 3. (currently amended) A method for registering at least one wireless access point
2 ~~with a gateway~~ in a wireless local area network (WLAN), comprising:
3 broadcasting a gateway discovery query message from said at least one wireless
4 access point;
5 receiving, from said at least one WLAN gateway, a respective service discovery
6 message;
7 selecting an appropriate WLAN gateway in an instance where more than one
8 service discovery message is received; and
9 sending an access point registration request comprising access point location, IP
10 address, MAC address, radio type, and power level information of said wireless access
11 point to said selected WLAN gateway.

1 4. (currently amended) The method of claim 3, wherein said selecting further
2 comprises:

3 determining if said wireless access point is currently registered; and
4 sending said service discovery message to said wireless access point.

1 5. (currently amended) The method of claim 3, wherein said selecting comprises:
2 determining an appropriate WLAN gateway using at least one of the following: a
3 cost of using a WLAN gateway, a load at a WLAN gateway, and system features
4 provided by a WLAN gateway.

1 6. (original) The method of claim 3, wherein said sending an access point
2 registration request further comprises sending security information in said access point
3 registration request.

1 7. (currently amended) The method of claim 6, wherein each wireless access point
2 selects a random delay prior to sending said access point registration request to said
3 WLAN gateway.

8. – 32. (canceled)